

# Device Modeling Report

COMPONENTS: Solar Cell  
PART NUMBER: BP 350  
MUNUFACTURER: bp Solar  
REMARK:Pmax=50 (W)  
REPORT of Solar Cells (LTspice IV)



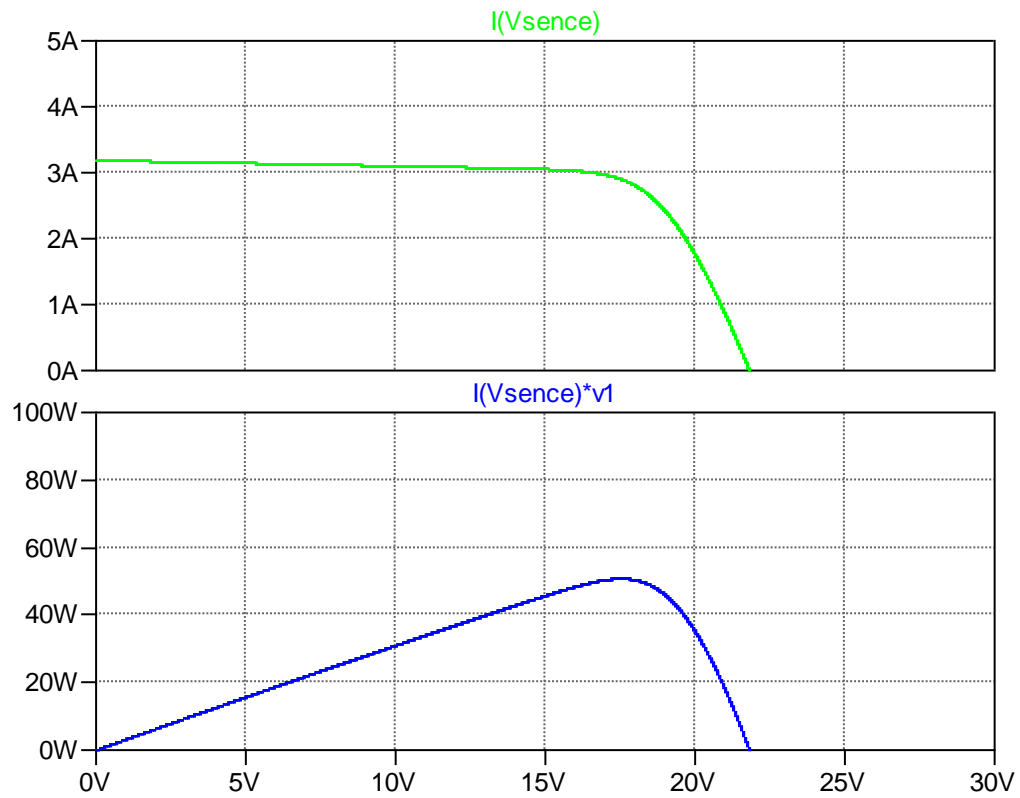
**Bee Technologies Inc.**

# Circuit Configuration

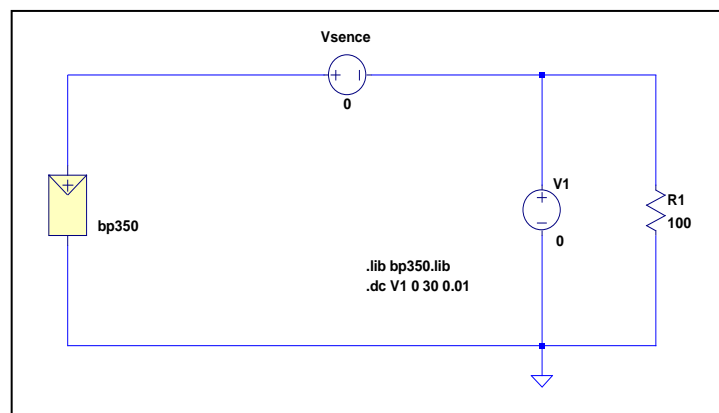


# Output Characteristic

## Circuit Simulation Result



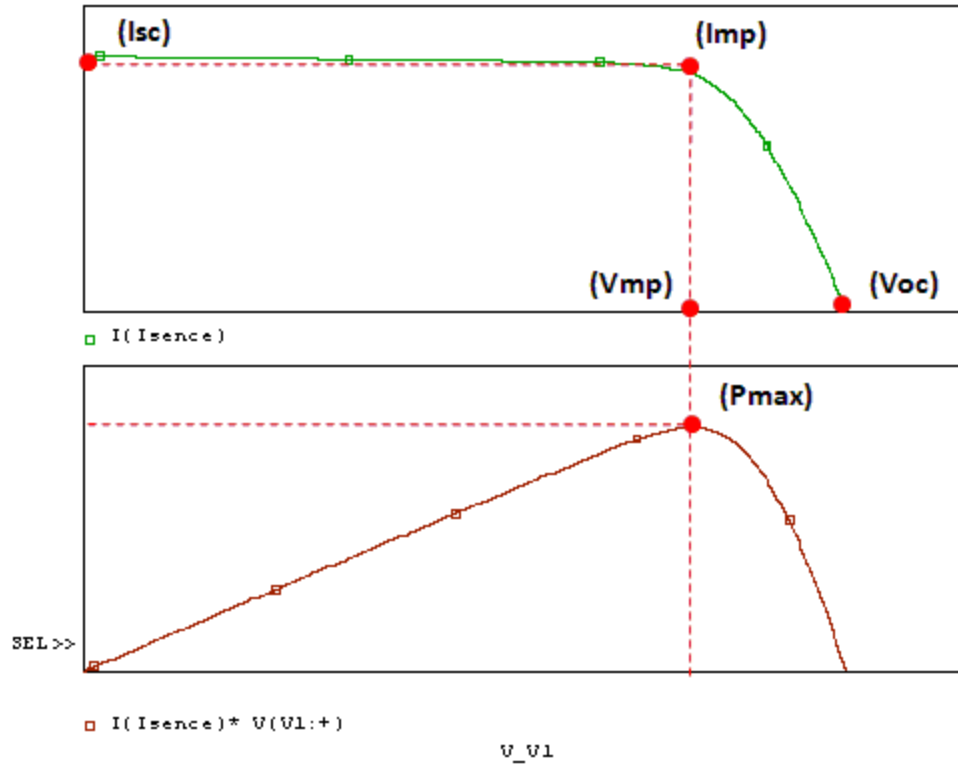
## Simulation Circuit



# Output Characteristic

# Reference

## Circuit Simulation Result



## Data Table

Symbol	Measurement	Simulation	%Error
Isc	3.2000	3.1824	-0.550
Voc	21.8000	21.8000	0.000
Imp	2.9000	2.8994	-0.021
Vmp	17.5000	17.5000	0.000
Pmax(Imp*Vmp)	50.7500	50.7390	-0.022

## Data Information

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<b>No. BP 350</b>	
<b>Maximum power (Pmax)<sup>3</sup></b>	<b>50.0W</b>
<b>Voltage at Pmax (Vmp)</b>	<b>17.5V</b>
<b>Current at Pmax (Imp)</b>	<b>2.9A</b>
<b>Short-circuit current (Isc)</b>	<b>3.2A</b>
<b>Open-circuit voltage (Voc)</b>	<b>21.8V</b>